Syllabus

First Semester Courses in MA (ECONOMICS)

2024-2025

Contents:

- **Syllabus for Core Courses:**
  - PAECO6001CR1: Microeconomics
  - PAECO6002CR1: Macroeconomics
  - PAECO6003CR1: Mathematical Economics

- **Syllabus for Elective courses:**
  - PAECO6001EL1: Financial Economics
  - PAECO6005EL1: Basic Econometrics

- **Syllabus for:**
  - PAECO6001RM1: Research Methodology
  - PAECO6001FP1: Field Project

- Evaluation and Assessment guidelines

M.A. PART - I ECONOMICS		
Course Title:	**Microeconomics**	
Course Code:	**PAECO6001CR1**	
Credits 4:	No of Lectures = 60 hrs	
Prerequisite:	Basic knowledge of Mathematics and statistics is preferred	

No.	**Course Objectives**
1.	To understand the core principles of Microeconomics
2.	To illustrate the Microeconomic theories in practical analysis

CO	**Course Outcomes** **On completing the course, the learner will be able to**	**Bloom's Taxonomy Level (BT level)**
1.	Analyze the optimization strategies of various markets	Remembering Understanding
2.	Identify the basic mathematical concepts underlying economics.	Applying
3.	Understand Utility Maximization and consumer behavior	Analyzing
4.	Interpret Profit and cost theories	Evaluating

UNIT I		**The Market: Understanding Demand and Supply**	**(15)**
	1.	Objectives of Firm	
	2.	Optimization	
	3.	Equilibrium	
	4.	Pareto Efficiency	
UNIT II		**Utility Maximization**	**(15)**
	1.	Demand Function; Inverse Demand Function	

	2.	Consumer Preferences; Revealed Preferences: WARP and SARP	
	3.	Langrange Multiplier	
	4.	Slustky Equation	
UNIT III		**Profit and Cost Theory**	**(15)**
	1.	Asset Markets	
	2.	Demand for factors; MRTS	
	3.	Uncertainty and Risk	
	4.	Cobb-Douglas Production Function	
	5.	Duality Principles	
UNIT IV		**Understanding Market Structure**	**(15)**
	1.	Monopoly; Lerner's Monopoly power	
	2.	Pricing Strategies; Social Costs of Monopoly power; Price Discrimination, Dumping and Bundling	
	3.	Location Model of Product Differentiation	
	4.	Monopsony, Bilateral Monopoly	
	5.	Oligopoly: Price Rigidity, Strategizing, Price Leadership, Limit Pricing, Anti-trust Laws	

List of Basic Reference Books:

1. Gravelle, H. and R. Rees (2004). *Microeconomics*. Pearson Edition.
2. Knutson, J., April 14 (2013) Perfect Competition Efficiency in Perfectly Competitive Markets* "Wheat on the Defensive in the Northern Plains." Agweek, Associated Press State Wire: North Dakota (ND).
3. Mas-Colell, (2005) Microeconomic Analysis , A., M.D. Whinston, and J. Green, Oxford University Press.
4. Varian, (1992) Microeconomic Analysis, H.R. WW Norton & Co.

Evaluation (Core Theory): Total marks per course – 100

I. Formative Assessment 'for' Learning (continuous internal assessment - CIA to improve learning).

CIA- 40 marks
CIA 1: Written test -20 marks
CIA 2: Assignment -20 marks

II. Summative Assessment of Learning (focus on outcomes, quantitative data for outcomes of instruction).

End Semester Examination – 60 marks
One question from each unit for 15 marks, with internal choice.

Eg: Template for the Core course End Semester examination in Semester 1

Learning Levels	Remembering	Understanding	Analyzing	Application	Evaluation	Creation
% Weightage	10%	40%	30%	10%	5%	5%

Keep the grid template for Evaluation, of course for CIA 2

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M.A. PART - I ECONOMICS		
Course Title: Macroeconomics **Course Code: PAECO6002CR1**		
Credits 4: Number of lectures = 60 hrs		
No.	**Course Objectives**	
1. 2. 3. 4.	To illustrate the core principles of Macroeconomics To demonstrate the relationship between unemployment and inflation To correlate the significance of Monetary and Fiscal policies To apply the theory in practical application	
CO	**Course Outcomes** **On completing the course, the learner will be able to**	**Bloom's Taxonomy Level (BT level)**
1.	Describe National Income Accounting	Remembering Understanding
2.	Evaluate Unemployment and Inflation strategies.	Remembering Understanding Analyzing
3.	Compare efficacy of Monetary and Fiscal Policies	Remembering Understanding Analyzing
4.	Understand the Government Budget Constraints	Remembering Understanding Analyzing

UNIT I		**National Income Accounting**	**(15)**
	1.	Measurement of GDP, GVA, CPI and WPI	
	2.	Components of GDP	
	3.	Real vs Nominal GDP	
	4.	GDP and welfare	
UNIT II		**Unemployment and Inflation**	**(15)**
	1.	AS-AD model	
	2.	Inflation: Classical Theories of Inflation, Recession, Depression, Cost of Inflation	
	3.	Identifying Unemployment, Job search, Efficiency Wages	
	4.	Philip's Curve; Okun's Law	
UNIT III		**Monetary and Fiscal Policy**	**(15)**
	1.	IS-LM analysis; Mundell-Fleming model	
	2.	Central Bank and Monetary policy: Targets, Instruments and Indicators;	
	3.	Uncertainty and Economic Policy; Expectation and Reactions; Taxonomy;	
	4.	Stabilization policy; Rules versus Discretion; Policy lags	
UNIT IV		**Government Budget Constraints**	**(15)**
	1.	Investment Spending	
	2.	National Debt: Current Account Balance, Foreign Exchange	
	3.	Debt financing: Taxation, Bond Financing, Ricardian Equivalence.	

List of Basic Reference Books:

1. D'souza, (2008) Pearson Education, New Delhi.
2. Dwivedi, (2008) Principles of Economics, D.N. Vikas Publishing House, New Delhi.
3. Mankiw, N. Gregory, (2003) Macroeconomics, 6e., New York: Worth Publishers.
4. Stiglitz, (2000) J New Economics of Public Sector, 3e., York: W.W. Norton & Co

Evaluation (Core Theory): Total marks per course – 100

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Eg: Template for the Core course End Semester examination in Semester 1

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Keep the grid template for Evaluation, of course for CIA 2

M.A. PART - I ECONOMICS		
Course Title: Mathematical Economics **Course Code: PAECO6003CR1**		
Credits 4: Number of lectures = 60 hrs		
Prerequisite: Basic knowledge of Mathematics is preferred		
No.	**Course Objectives**	
1. 2. 3. 4.	To illustrate the basics of Mathematical Economics To classify the significance of Linear and Non-linear Optimization To interpret economic application measuring consumer and producer surplus To apply the theory in practical application	
CO	**Course Outcomes** **On completing the course, the learner will be able to**	**Bloom's Taxonomy Level (BT level)**
1.	Describe differential Calculus & Linear Algebra	Remembering Understanding Applying
2.	Classify Linear and Nonlinear Optimization	Remembering Understanding Applying
3.	Explain dynamics	Remembering Understanding Applying
4.	Apply principles of Mathematical economics in market	Remembering Understanding Applying

UNIT I		**Differential Calculus & Linear Algebra**	**(15)**
	1.	Partial and Total Derivatives with economic applications	
	2.	Taylor's approximation	
	3.	Convex sets, convex and concave functions	
	4.	Properties of linear homogeneous functions	
	5.	Euler's theorem	
	6.	Matrices	
	7.	Simultaneous linear equations	
	8.	Hawkin - Simon condition	
	9.	Eigen roots and vectors	
UNIT II		**Optimization**	**(15)**
	1.	Introduction to quadratic forms	
	2.	Unconstrained optimization, constrained optimization with equality constraints	
	3.	Lagrange method; Hessian and Jacobian matrices	
	4.	Economic Applications: Utility maximization, Cost minimization, Profit – Output maximization	
UNIT III		**Linear and Non- Linear Optimization**	**(15)**
	1.	Duality theory	
	2.	Constrained optimization with inequality and non-negativity constraints	
	3.	Kuhn-Tucker formulation	
	4.	Linear programming – formulation, primal and dual, solutions using graphical	
	5.	Simplex methods	
UNIT IV		**Dynamics**	**(15)**
	1.	Definite and indefinite integrals	
	2.	Economic Applications – measuring consumer and producer surplus	
	3.	Continuous interest – discount calculations	
	4.	Difference and differential equations; phase diagrams; Cobweb model; multiplier accelerator; Harrod-Domar model	

List of Basic Reference Books:

1. Chiang (Author), Wainwright (Author) 1 July (2017), Fundamental Methods of Mathematical Economics | 4th Edition Paperback
2. Imon, Carl P. and Lawrence Blume, (1994) S Mathematics for Economists, W. W. Norton & Company, Inc., 1994
3. Sydsaeter, K and P. J. Hammond, 1 January (2002) Mathematics for Economic Analysis, Mathematics for Economic Analysis, 1e Paperback

Evaluation (Core Theory): Total marks per course – 100

I. Formative Assessment 'for' Learning (continuous internal assessment - CIA to improve learning).
   CIA- 40 marks
   CIA 1: Written test -20 marks
   CIA 2: Assignment -20 marks

II. Summative Assessment 'of' Learning (focus on outcomes, quantitative data for outcomes of instruction).
   End Semester Examination – 60 marks
   One question from each unit for 15 marks, with internal choice.

Eg: Template for the Core course End Semester examination in Semester 1

Learning Levels	Remembering	Understanding	Analyzing	Application	Evaluation	Creation
% Weightage	10%	40%	30%	10%	5%	5%

Keep the grid template for Evaluation, of course for CIA 2

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M.A. PART -I ECONOMICS		
Course Title: Financial Economics **Course Code: PAECO6001EL1**		
Credits 4: Number of lectures = 60 hrs		
No.	**Course Objectives**	
1. 2.	To interpret the core principles of Financial Markets To analyze the Theory of Uncertainty, portfolio, Index Models, and Securities.	
CO	**Course Outcomes** **On completing the course, the learner will be able to**	**Bloom's Taxonomy Level (BT level)**
1.	Describe the Financial Markets.	Remembering Analyzing Applying
2.	Classify Theories of Uncertainty and Portfolio	Remembering Analyzing Applying
3.	Identify Capital Asset Pricing Model and Arbitrage Pricing	Remembering Analyzing Applying
4.	Evaluate Fixed Income Securities	Remembering Analyzing Applying

UNIT I		**Introduction to Financial Markets**	**(15)**
		Capital markets, consumption, and investments with and without capital markets, market places and transaction costs and the breakdown of separation; Fisher separation theorem; the agency problem; maximization of shareholder's wealth.	
UNIT II		**Theory of Uncertainty & Mean-Variance Portfolio**	**(15)**
		Axioms of choice under uncertainty; utility functions; expected utility theorem; certainty equivalence, measures of risk-absolute and relative risk aversions; stochastic dominance; measuring portfolio return and risks, effect of diversification, minimum variance portfolio, perfectly correlated assets, optimal portfolio choice, portfolio weights.	
UNIT III		**Index Models, CAPM & APT**	**(15)**
		Models of asset returns, multi-index models, single index model, systematic and specific risk, equilibrium models-capital asset pricing model, capital market line, security market line, estimation of beta, arbitrage pricing theory.	
UNIT IV		**Fixed Income Securities**	**(15)**
		Bond prices, spot prices, discount factors, and arbitrage, forward rates and yield-to-maturity, Price sensitivity, Hedging.	

List of Basic Reference Books:

1. Brealey, R. and S. Myers, (1997) Principles of Corporate Finance, fifth edition, New York, McGraw Hill.
2. Copeland, T. E. and J. F. Weston, (1992) Financial Theory and Corporate Policy, Addison Wesley.
3. Houthakker, H.S. and P.J. Williamson, (1996) Economics of Financial Markets, Oxford University Press,
4. John Wiley & Sons by Elton, (1991) Modern Portfolio Theory & Investment Analysis, (fourth edition) E.J and M.J. Gruber.

Evaluation (Elective Course): Total marks per course – 100

I. Formative Assessment 'for' Learning (continuous internal assessment - CIA to improve learning).
CIA- 40 marks
CIA 1: Written test -20 marks
CIA 2: Assignment -20 marks

II. Summative Assessment 'of' Learning (focus on outcomes, quantitative data for outcomes of instruction).
End Semester Examination – 60 marks
One question from each unit for 15 marks, with internal choice.

Eg: Template for the Elective course End Semester examination in Semester 1

Learning Levels	Remembering	Understanding	Analyzing	Application	Evaluation	Creation
% Weightage	10%	40%	30%	10%	5%	5%

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M.A. PART - I ECONOMICS		
Course Title: Basic Econometrics **Course Code: PAECO6005EL1**		
Credits 4: Number of lectures = 60 hrs		
Prerequisite: Basic knowledge of Mathematics and Statistics		
No.	**Course Objectives**	
1. 2. 3.	To understand the fundamentals of Econometrics To comprehend the classical linear regression model To learn the usage of limited dependent variables	
CO	**Course Outcomes** **On completing the course, the learner will be able to**	**Bloom's Taxonomy Level (BT level)**
1.	Estimate the Linear Regression Model	Understanding Applying Analyzing
2.	Interpret Regression with Dummy Variables	Understanding Applying Analyzing
3.	Calculate Limited Dependent Variables	Understanding Applying Analyzing
4.	Evaluate models for analysis	Understanding Applying Analyzing

UNIT I		**The Classical Linear Regression Model Assumptions**	**(15)**
	1.	Estimation and Inference	
	2.	Ordinary Least Square (OLS) estimation: The Classical assumptions; Gauss-Markov Theorem and properties of the OLS estimators	
	3.	Interval Estimation and Hypothesis Testing; Interpreting Regression results.	
UNIT II		**Shortcomings of Classical Assumptions**	**(15)**
	1.	Heteroscedasticity	
	2.	Autocorrelation and Multicollinearity: Causes, Consequences and Detection Methods	
	3.	Remedial Measures	
UNIT III		**Regression Analysis with Dummy Variables**	**(15)**
	1.	Interpretation of Coefficients on Dummy Explanatory Variables	
	2.	Interactions involving Dummy Variables and use of Dummy Variables in Seasonal Analysis	
	3.	Piece-wise regression analysis: The Dummy Variable alternative to Chow Test.	
UNIT IV		**Limited Dependent Variable**	**(15)**
	1.	Linear Probability Model; Problems relating to LPM	
	2.	Logit and Probit Model	
	3.	Multinomial Choice Models: Ordered Response Model; Unordered Response Model	
	4.	Censored and Truncated Regression Model	

List of Basic Reference Books:

1. Gujarati, Damodar, Basic Econometrics, 4th Edition, Tata McGraw Hill Publishing Company, New Delhi

2. Johnston and Dinardo, Econometric Methods, 4th Edition McGraw-Hill International Edition

3. Studenmund, A.H., Using Econometrics: A Practical Guide, Addison Wesley Publishing Company. Boston,

4. Wooldridge J., Introductory Econometrics: A Modern Approach, South-Western College Pub.

Evaluation (Elective Course): Total marks per course – 100

I. Formative Assessment 'for' Learning (continuous internal assessment - CIA to improve learning).
CIA- 40 marks
CIA 1: Written test -20 marks
CIA 2: Assignment -20 marks

II. Summative Assessment 'of' Learning (focus on outcomes, quantitative data for outcomes of instruction).
End Semester Examination – 60 marks
One question from each unit for 15 marks, with internal choice.

Template for the Elective course End Semester examination in Semester 1

UNITS	KNOWLEDGE	UNDERSTANDING	APPLICATION and ANALYSES	TOTAL MARKS- Per unit
1	5	2.5	2.5	10
2	5	2.5	2.5	10
3	5	2.5	2.5	10
4	5	5	5	15
5	5	5	5	15
-TOTAL - Per objective	25	17.5	17.5	60
% WEIGHTAGE	41.66	29.16	29.16	100%

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M.A. PART - I ECONOMICS		
Course Title: Research Methodology **Course Code: PAECO6001RM1**		
Credits 4: Number of lectures = 60 hrs		
Prerequisite: Basic knowledge of Mathematics and statistics is preferred		
No.	**Course Objectives**	
1. 2. 3. 4.	To explain the basics of Research Methodology. To describe the significance of Data Management and Analysis. To train students in report writing. To illustrate how students interpret the data.	
CO	**Course Outcomes** **On completing the course, the learner will be able to**	**Bloom's Taxonomy Level (BT level)**
1.	Discuss the basics of Research	Remembering, Understanding, Applying
2.	Discover the basic methodology of research in economics and related fields	Remembering, Understanding, Applying
3.	Evaluate data management	Remembering, Understanding, Applying
4.	Report writing and interpretation	Remembering, Understanding, Applying

UNIT I		**Introduction to Research**	**(15)**
	1.	Defining the Research Problem	
	2.	Formulating a research Design	
	3.	Reviewing Literature	
UNIT II		**Methodology**	**(15)**
	1.	Sampling Design	
	2.	Hypothesis Testing	
	3.	Methods Data Collection	
UNIT III		**Data Management and Analysis**	**(15)**
	1.	Instrument of Data Collection	
	2.	Processing and Analyzing Data	
	3.	Use of Computer Applications	
UNIT IV		**Report Writing / Interpretations**	**(15)**
	1.	Interpretation and Presentation	
	2.	Writing a Research proposal	
	3.	Writing the Research Report	

List of Basic Reference Books:

1. C. R. Kothari, (2004, 1990, 1985) Research Methodology, New era Publication, New Age International (P) Ltd., Publishers Published by New Age International (P) Ltd., Publishers
2. Creswell, J. W. (2014). Research Design: Qualitative, Quantitative and Mixed Methods Approaches (4th ed.). Thousand Oaks, CA: Sage
3. Sharan B. Merriam (Author), Elizabeth J. Tisdell (Author), 9 October (2015) Qualitative Research: A Guide to Design and Implementation Paperback
4. William Goode and Paul Hatt, (1952) Methods in Social Research New York: McGraw-Hill Book Co .
5. William Trochim, (2004) Research Methods: The Concise Knowledge Base Published by Atomic Dog.

Evaluation (Research Methodology): Total marks per course – 100

I. Formative Assessment 'for' Learning (continuous internal assessment - CIA to improve learning).
CIA- 40 marks
CIA 1: Written test -20 marks
CIA 2: Assignment -20 marks

II. Summative Assessment 'of' Learning (focus on outcomes, quantitative data for outcomes of instruction).
End Semester Examination – 60 marks
One question from each unit for 15 marks, with internal choice.

Eg: Template for the Research Methodology End Semester examination in Semester 1

Learning Levels	Remembering	Understanding	Analyzing	Application	Evaluation	Creation
% Weightage	10%	40%	30%	10%	5%	5%

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M.A. PART-I ECONOMICS (Semester I)		
Course Title: Field Project **Course Code: PAECO6001FP1**		
Credits: 2 Hours = 30 hrs		
No.	**Course Objectives**	
1. 2.	To get hands-on experience with data collection methods. To develop and apply skills for data analysis.	
CO	**Course Outcomes** **On completing the course, the learner will be able to**	**Bloom's Taxonomy Level (BT level)**
1.	Describe the basics of Data Collection	Remembering, Understanding, Applying
2.	Explore fundamental research methods in economics and related fields for data collection	Remembering, Understanding, Applying
3.	Evaluate data management's efficiency in facilitating robust data analysis	Remembering, Understanding, Applying
4.	Review and suggest policy intervention	Remembering, Understanding, Applying

Data Collection

Conducting a comprehensive data collection process involves identifying key problem areas, carefully selecting relevant parameters, and making on-site visits to the specified locations to gather essential information.

Data Analysis

Analyzing processed data by employing appropriate mathematical, statistical, and econometric methods, and critically reviewing the results to extract valuable policy perspectives and propose effective solutions.

Evaluation of Learning

Student performance will be assessed on total points with the following criteria and methods of evaluation:

1. Report Writing
2. Viva Voce